

## **Chrysanthemum plant named 'Sizzleness'**

### **BACKGROUND OF THE INVENTION**

'Sizzleness' is a product of a breeding-program which had the objective of creating new chrysanthemum cultivars with a decorative type flower, a 7.5 week response and a medium plant height (1 m). The new plant of the present invention comprises a new and distinct cultivar of Chrysanthemum plant. 'Sizzleness' is a seedling from a cross in a breeding program maintained under the control of inventor. The female parent is #96.1260 and the male parent #97.0324, both unpatented plants form the proprietary seedling collection of the inventor. The new and distinct cultivar was discovered and selected as a flowering plant within the progeny of the stated cross by Mark Roland Boeder in a controlled environment (greenhouse) in Rijsenhout Holland in 2001. The first act of asexual reproduction of 'Sizzleness' was accomplished when vegetative cuttings were taken from the initial selection in 2001 in a controlled environment in Rijsenhout Holland.

### **SUMMARY OF THE INVENTION**

The present invention is a new and distinct variety of chrysanthemum bearing medium sized multicolored blooms with pink/cream ray-florets and green disc florets.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

The present invention of a new and distinct variety of chrysanthemum is shown in the accompanying drawings, the color being as nearly true as possible with color photographs of this type.

Fig. 1 shows a plant of the cultivar in full bloom.

Fig. 2 shows the various stages of bloom of the new cultivar.

Fig.3 shows the foliage of the new cultivar.

### **DESCRIPTION OF THE INVENTION**

This new variety of chrysanthemum is of the botanical classification *Chrysanthemum morifolium*. The observations and measurements were gathered from plants grown in April / May in a greenhouse in Rijsenhout Holland in a photo-periodic controlled crop under conditions generally used in commercial practice. The greenhouse temperatures during this crop were at day-time between 18°C and 25°C and at night 20°C. After a long day period of 14 days the photo-periodic response time in this crop was 52 days. After the long day period to flowering growth retardants were applied 2 to 3 times in an average dose of 2.5 gram / liter water. The plants were observed (directly) during the flowering of this crop. No tests were done on disease or insect resistance or susceptibility. No tests were done on cold or drought tolerance. This new variety produces medium sized blooms with pink/cream ray-florets and green disc-florets blooming on the plant for 5 weeks. This new variety of chrysanthemum has been found to retain its distinctive characteristics throughout successive propagations however the phenotype may vary significantly with variations in environment such as light intensity and temperature. To show the phenotype as described 'Sizzleness' can be planted without assimilation lightning (high pressure sodium lamps) between week 26 and week 16 of the next year under greenhouse conditions in Holland. With assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland.

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Sizzleness' is 'Spring' (U.S.Plant Patent#12,934). When 'Spring' and 'Sizzleness' are being compared the following differences and similarities are noticed.

The inflorescence of both varieties consists of a small center of disc florets, surrounded by several rows of quilled ray florets. The differences of 'Spring' and 'Sizzleness' are (1) Number ray florets. The number is in 'Spring' larger than in 'Sizzleness'. (2) Color ray florets. The color is in 'Spring' pink, while this is dark pink with a cream edge in 'Sizzleness'.

The following is a description of the plant and characteristics that distinguish 'Sizzleness' as a new and distinct variety. The color designations are taken from the plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society Colour Chart, edition 1995.

Table 1. Botanical Description of cultivar ‘Sizzleness’

Bud

Size	Medium, cross-section 0.6 cm height 1 cm
Outside color	Yellow-green 150D/Purple-violet 80D
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 138B

Bloom

Type	Decorative
Height	3 cm
Size	Medium
Fully expanded	6 cm
Number of blooms per stem	Average of 18 - 20
Performance on the plant	5 weeks
Seeds (if crossed)	Produced in small quantities, oval shaped, grey-brown 199A, 2 mm in length.
Fragrance	Typical chrysanthemum, slight
Peduncle length	Near the top 14 cm, near the middle 13 cm, near the bottom 12 cm
Peduncle color	Yellow-green 148A

Color

Center of the flower	Immature Yellow-green 149A
	Mature Yellow-green 154C
Color of the ray-florets	Upper surface Purple-violet 80C/Yellow 4D
	Lower surface Purple-violet 80D/Yellow 4D

Tonality from Distance	A spray mum with pink/cream flowers and green disc
Color of upper side of ray florets at aging of the plant	Purple-violet 80C with Yellow 4D at edges

#### Ray florets

Texture	Upper and under side smooth
Number	100
Shape	Elongated quilled
Longitudinal axis of majority	Straight
Length of corolla tube	Long; 2.5 cm
Ray-floret margin	Entire
Ray-floret length	3 cm
Ray-floret width	0.3 cm
Ratio length / width	High
Shape of tip	Rounded

#### Disc florets

Disc diameter	0.8 cm
Distribution of disc florets	Few, only visible in mature stage of flowering
Shape	Tubular
Color	Yellow-green 154C
Receptacle shape	Domed raised

#### Reproductive Organs

Stamen (present in disc florets only)	Thin
Stamen color	Yellow-green 144 B
Pollen	Produced in small quantity

Pollen color	Yellow 7A
Styles (present in both ray and disc florets)	Thick
Style color	Yellow-green 150C
Style Length	4 mm
Stigma color	Yellow-green 145 D
Stigma Width	1 mm
Ovaries	Enclosed in calyx

#### Plant

Form	A spray mum meant for erect culture
Growth habit	Upright
Growth rate	Medium vigor
Height	90 cm
Width	28 cm
Internode length	2 – 3.5 cm
Spray formation	Cylindrical
Stem Color	Yellow-green 148A
Stem Strength	Strong
Stem Brittleness	Not brittle
Stem Anthocyanin coloration	Absent
Flowering Response (photo-periodic controlled crop, not natural season)	52 days

#### Foliage

Color immature stage	Upper side Green 137B Under side Green 138C
Color mature stage	Upper side Green 137A Under side Green 138A

Color midvein mature leaf	Upper side Yellow-green 145C
	Under side Yellow-green 148C
Size	Medium; length 15 cm, width 7.5 cm
Quantity (number per single stem)	30
Shape	Elliptic
Texture upper side	Fleshy and glabrous
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Dentate
Shape of Base of Sinus Between Lateral Lobes	Diverging
Margin of Sinus Between Lateral Lobes	Rounded
Shape of Base	Obtuse
Apex	Mucronulate
Petiole Length	2 cm
Petiole Color	Yellow-green 145C

Table 2. Differences with the comparison variety

	'Sizzleness'	'Spring'
Number of ray florets	100	224
Color of ray florets	Purple-violet 80C with Yellow 4D at edges	Purple 75B to 75C